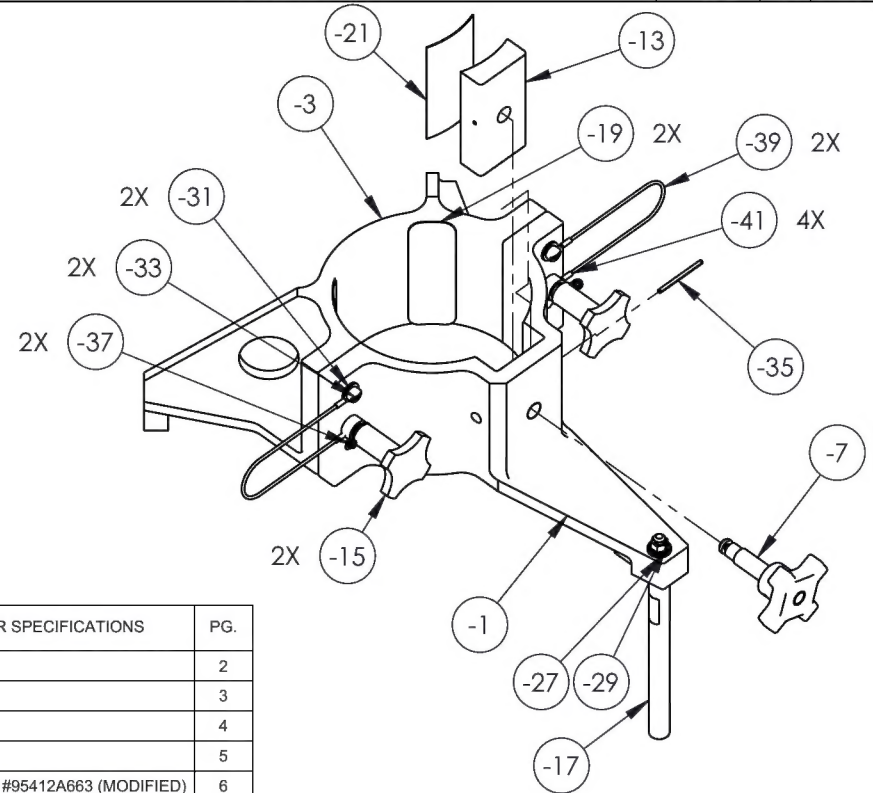
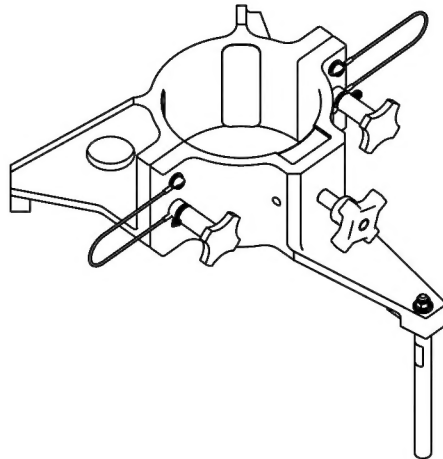


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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL



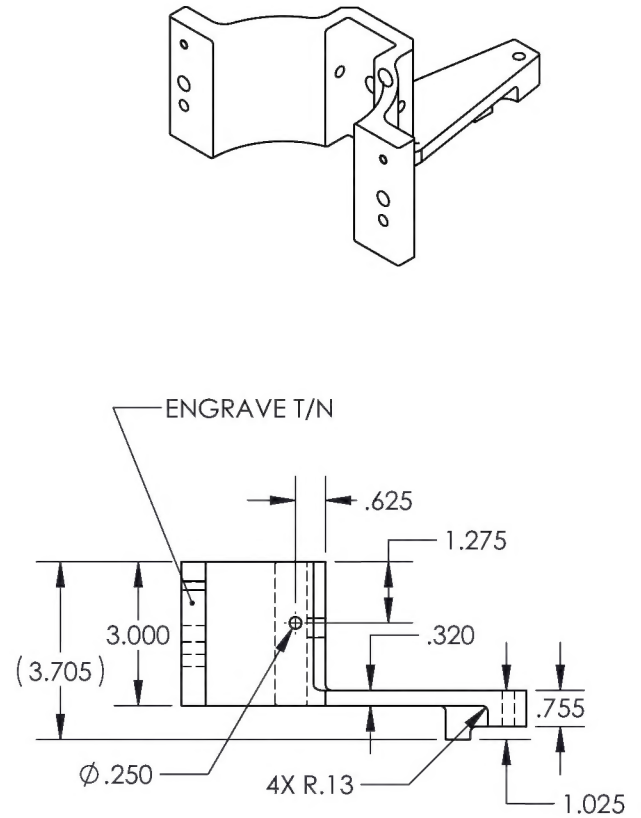
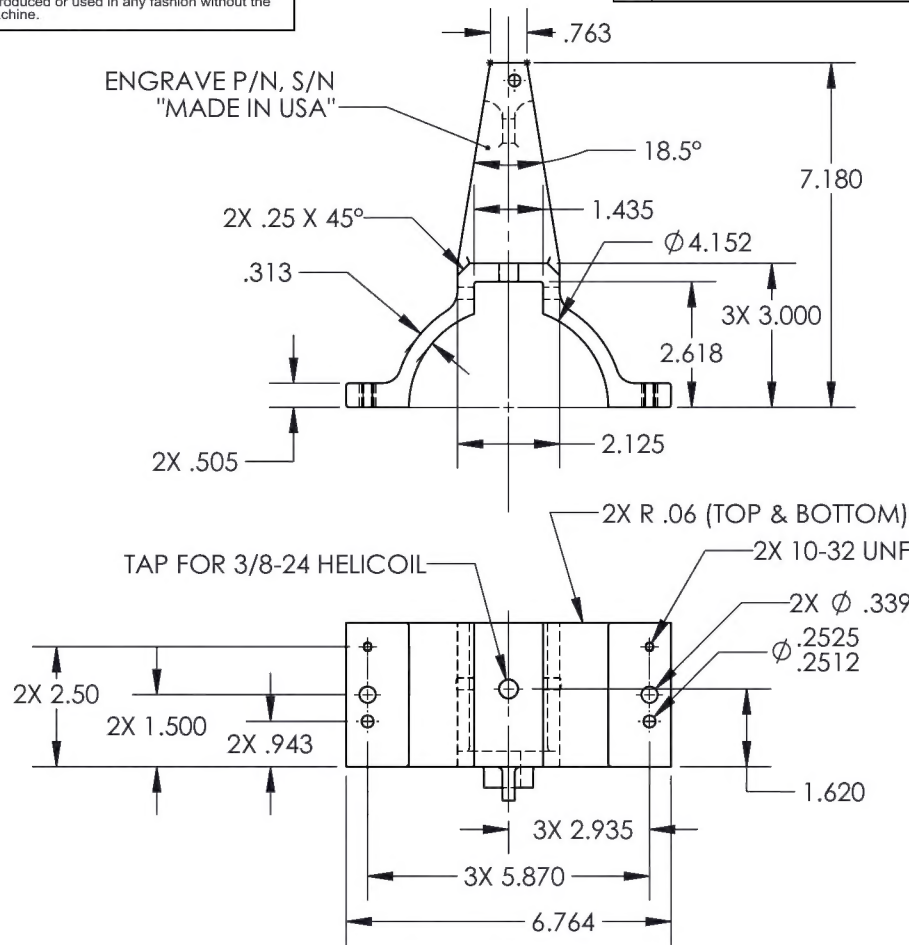
ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			-1	1	FRONT HALF	6061	3-7/8 X 6-7/8 X 7-3/8	2
	X		-3	1	ASSEMBLY			3
	1		-5		BACK HALF	6061	4-1/8 X 4-1/2 X 9-1/4	4
X			-7	1	KNOB ASSEMBLY			5
1			-9		STUD	S.S.	3/8-24 MCMaster-CARR #95412A663 (MODIFIED)	6
1			-11		KNOB	IRON	CARRLANE #CL-22-HK-2	7
			-13	1	BLOCK	S.S.	3/4 X 1-1/2 X 2-3/4	8
			-15	2	ASSEMBLY KNOB	S.S.	Ø1-1/2 X 2-3/4	9
			-17	1	ROD	S.S.	Ø1/2 X 6	10
			-19	2	PAD	TBD	.020 X 1 X 3	11
			-21	1	BLOCK PAD	TBD	.020 X 1-1/2 X 2-3/4	11
	2	B/O	-23		DOWEL PIN	S.S.	1/4 X 3/4 MCMaster-CARR #98381A540	3
1		B/O	-25		SPRING PIN	STEEL	Ø1/8 X 5/8 MCMaster-CARR #98296A879	5
		B/O	-27	1	WASHER	STEEL	1/2 OD X 17/64 ID MCMaster-CARR #91090A105	1
		B/O	-29	1	NUT	STEEL	1/4-28 MCMaster-CARR #95307A500	1
		B/O	-31	2	WASHER	STEEL	#10 MCMaster-CARR #93286A043	1
		B/O	-33	2	SCREW	STEEL	10-32 X 7/16 MCMaster-CARR #91794A828	1
		B/O	-35	1	SPRING PIN	STEEL	Ø5/64 X 1-1/4 MCMaster-CARR #98296A143	1
		B/O	-37	2	CABLE RING	STEEL	Ø7/16 CARR LANE #CL-7-KR	1
		B/O	-39	2	LANYARD WIRE	COATED STEEL	Ø1/16 X 7 CARR LANE #CL2C	1
		B/O	-41	4	FERRULE	ALUMINUM	Ø1/16 X 3/8 MCMaster-CARR #3896T31	1
		B/O	-43	1	REMOVE BEFORE FLIGHT	NYLON	NAS1091A42	NS
		B/O	-45	1	ROPE	NYLON	15" MCMaster-CARR #3852T11	NS
		B/O	-47	1	THREADED INSERT	S.S.	3/8-24 X 3/8 MCMaster-CARR #91732A524	2
		B/O	-49	2	THREADED INSERT	S.S.	5/16-24 X 5/16 MCMaster-CARR #91732A519	4
-7 ASSY	-3 ASSY							

NOTE: INSTALL TWO -19 (PAD) EQUALLY SPACED INSIDE -3 (ASSEMBLY). THREAD -7(KNOB ASSY) INTO -1 (FRONT HALF) THEN INSTALL -13 (BLOCK) USING -35 (SPRING PIN).

<b>RED BARN MACHINE</b>	
<b>POSITION TOOL</b>	
DWG NO.	REV
RB T103288-101	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON:	
DECIMALS	FRACTIONS ± 1/32
.XXX ± .005	ANGLES ± 5°
.XX ± .01	
.X ± .1	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE	DATE
1:4	7/19/2011
SHEET 1 OF 11	

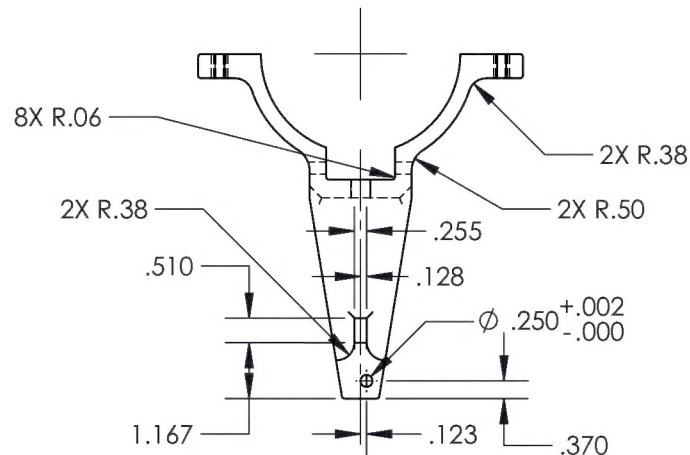
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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL



(-1)

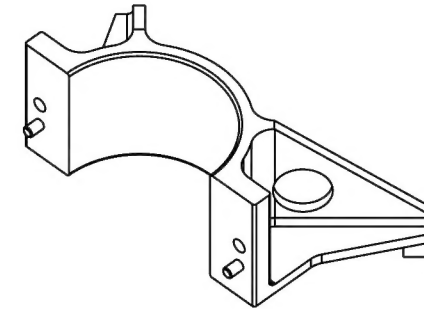
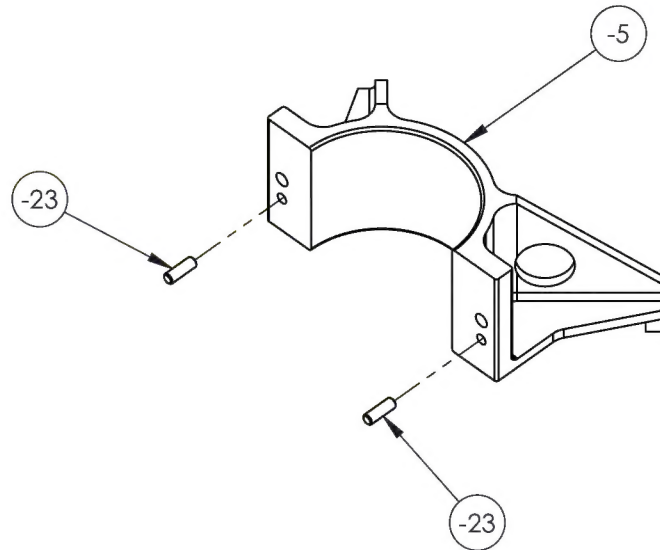
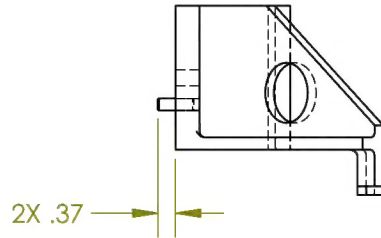
FRONT HALF




RED BARN MACHINE			
TITLE			
POSITION TOOL			
DWG NO.			REV
RB T103288-101-1			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAWN BY: GILBERT	
TOLERANCES ON:		APPROVED <i>D Weil</i>	
DECIMALS		HEAT TREAT	
.XXX ± .005		FINISH	
.XX ± .01		CLEAR ANODIZE	
.X ± .1		SPEC MIL-A-8625F, TYPE II, CLASS I	
UNLESS OTHERWISE SPECIFIED		USED ON MODEL	
1. BREAK ALL SHARP EDGES		BELL 412	
.015 x 45° PR .015 R			
2. DIMENSIONAL LIMITS APPLY AFTER PLATING			
SCALE	1:4	DATE	7/19/2011
		SHEET 2 OF 11	

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
			APPROVED

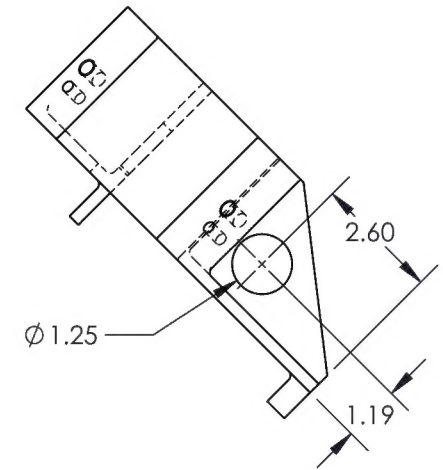
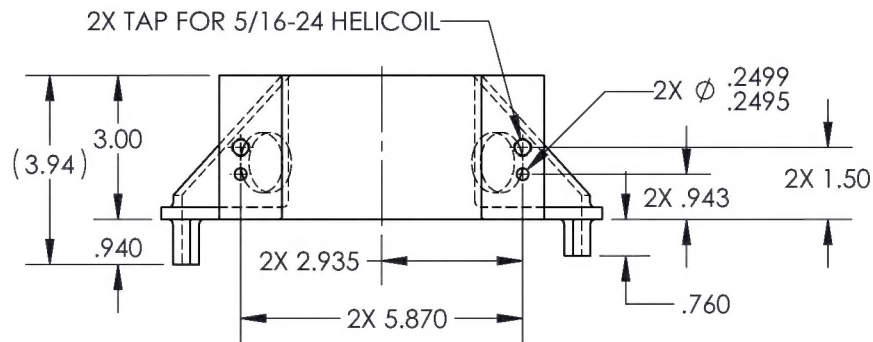
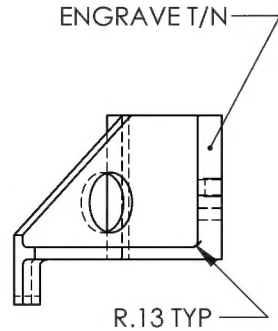
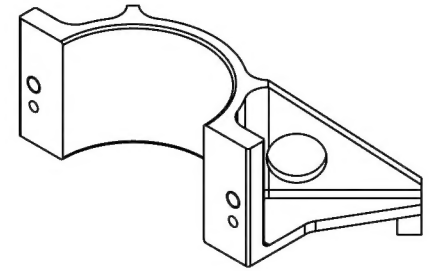
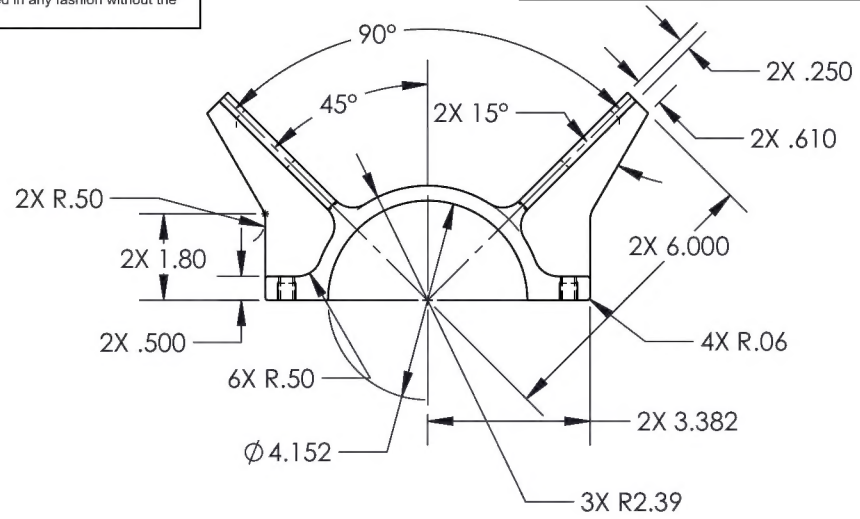


(-3)  
ASSEMBLY

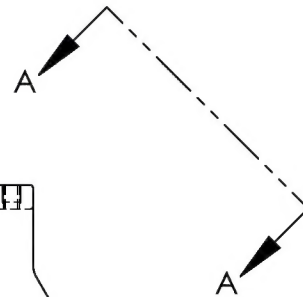
 <b>RED BARN MACHINE</b>	
<b>POSITION TOOL</b>	
DWG NO. <b>RB T103288-101-3</b>	
TITLE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1	
FRACTIONS ± 1/32 ANGLES ± 5°	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:4	
DATE 7/19/2011	
SHEET 3 OF 11	
DRAWN BY: GILBERT APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC USED ON MODEL BELL 412	

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL



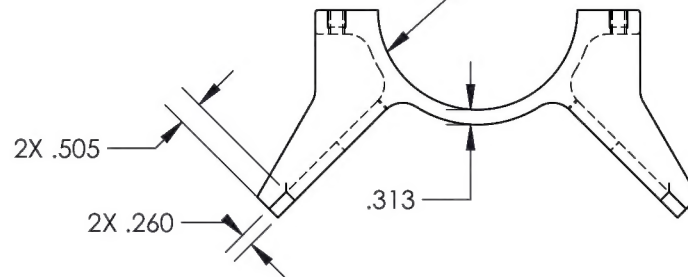
2X R.06(TOP & BOTTOM)



(5)

BACK HALF

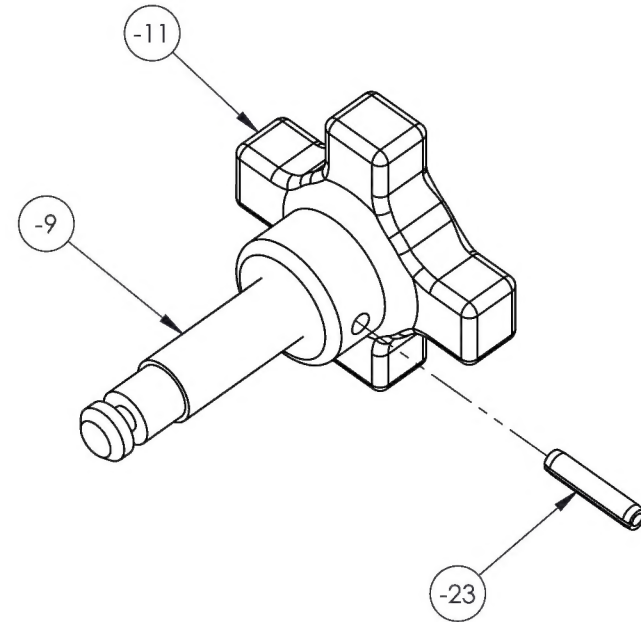
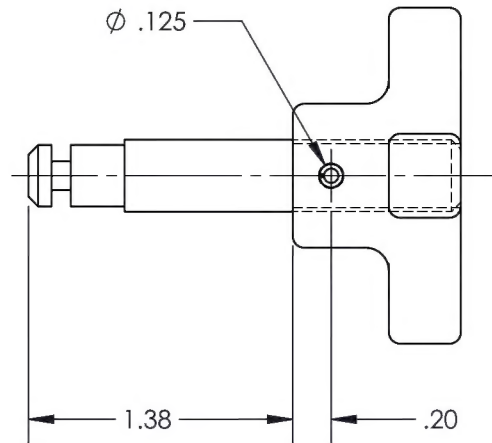
VIEW A-A



RED BARN MACHINE			
TITLE POSITION TOOL			
DWG NO. RBT103288-101-5			REV
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAWN BY: GILBERT	
TOLERANCES ON:		APPROVED <i>D Weil</i>	
DECIMALS		HEAT TREAT	
.XXX $\pm .005$		FINISH CLEAR ANODIZE	
.XX $\pm .01$		SPEC MIL-A-8625F, TYPE II, CLASS I	
.X $\pm .1$		USED ON MODEL	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R		BELL 412	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		SCALE 1:4	
DATE 7/19/2011		SHEET 4 OF 11	


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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL



(-7)  
KNOB ASSEMBLY

NOTE: THREAD -9 (STUD) INTO -11 (KNOB) USING AN APPROPRIATE THREAD LOCKER, THEN DRILL AND PIN USING -23 (ROLL PIN)

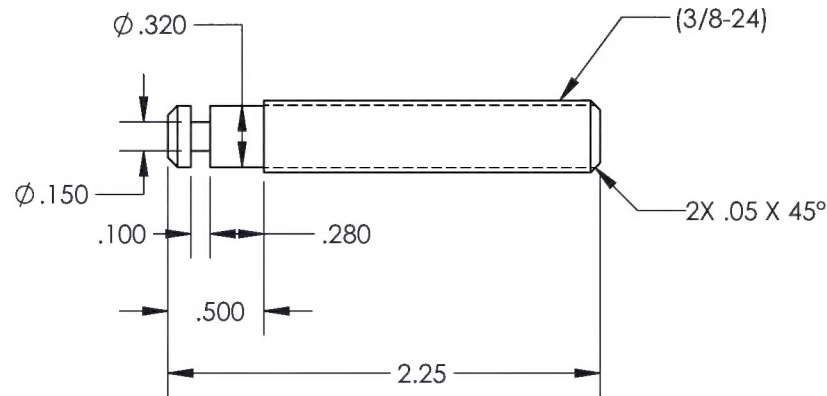
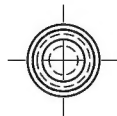
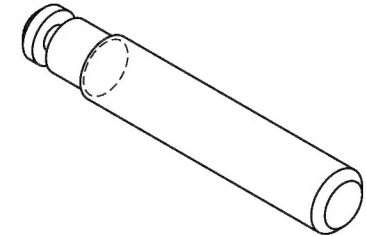
 <b>RED BARN MACHINE</b>	
<b>TITLE</b> POSITION TOOL	
<b>DWG NO.</b> RB T103288-101-7	<b>REV</b> 
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES <b>TOLERANCES ON:</b> DECIMALS .XXX ± .005      FRACTIONS ± 1/32 .XX ± .01        ANGLES ± 5° .X ± .1	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
<b>SCALE</b> 1:4	<b>DATE</b> 7/19/2011
<b>SHEET 5 OF 11</b>	

<b>DRAWN BY:</b> GILBERT <b>APPROVED:</b> <i>D Weil</i> <b>HEAT TREAT:</b> <b>FINISH:</b> <b>SPEC:</b>	<b>USED ON MODEL:</b> BELL 412
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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED

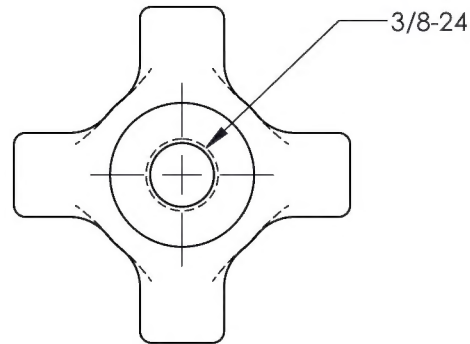
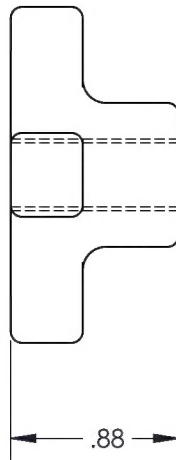
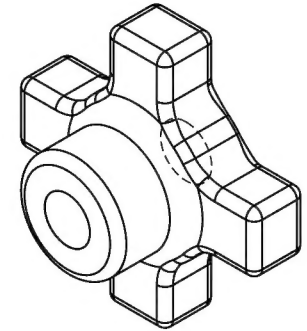


(-9)  
 STUD


 <b>RED BARN MACHINE</b>	
<b>TITLE</b> POSITION TOOL	
<b>DWG NO.</b> RB T103288-101-9	<b>REV</b>
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES <b>TOLERANCES ON:</b> DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	<b>DRAWN BY:</b> GILBERT <b>APPROVED</b> <i>D Weil</i> HEAT TREAT FINISH SPEC
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL BELL 412
<b>SCALE</b> 1:1	<b>DATE</b> 7/19/2011
SHEET 6 OF 11	

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
			APPROVED

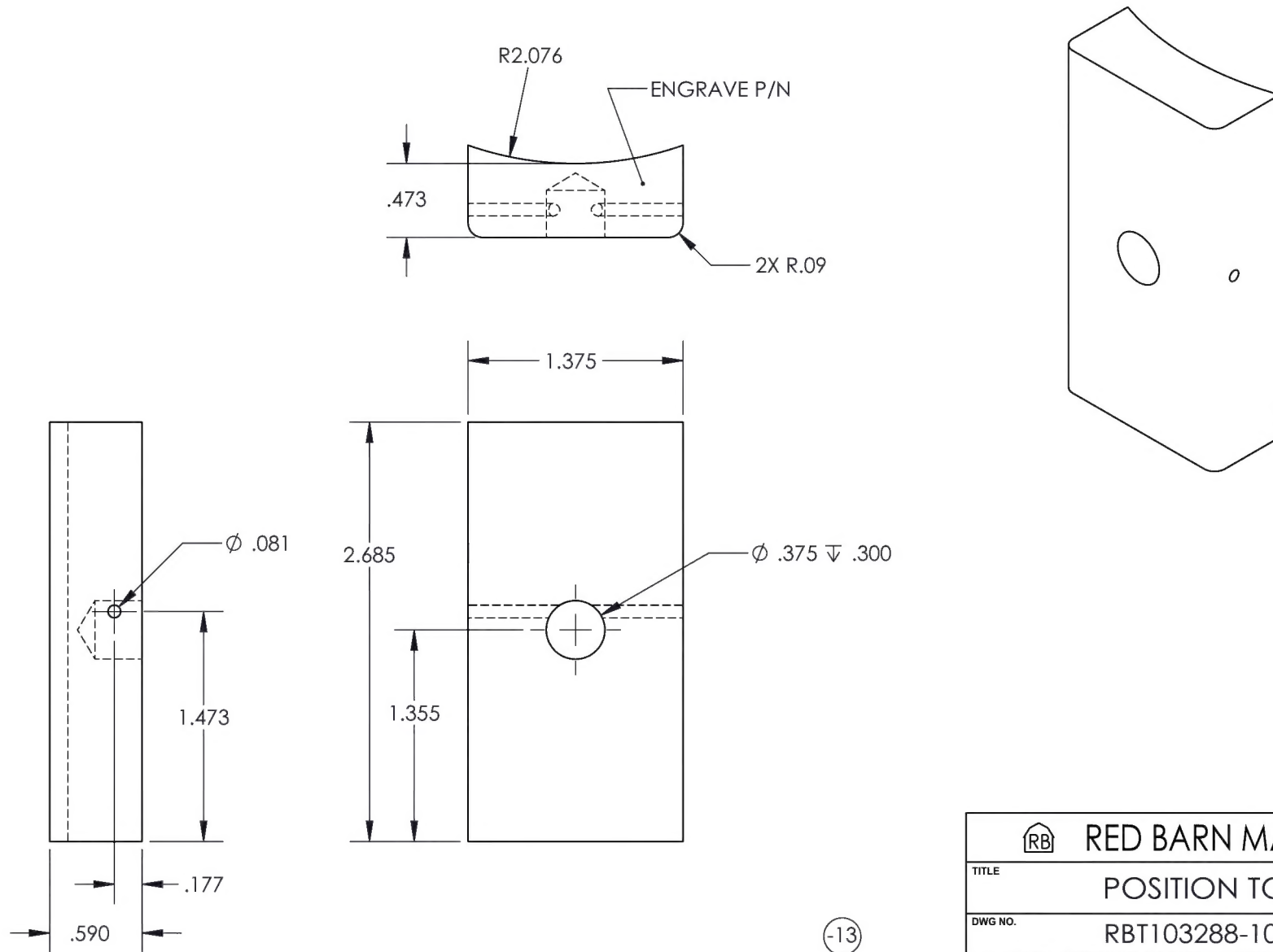


(-11)  
KNOB


 <b>RED BARN MACHINE</b>	
<b>POSITION TOOL</b>	
DWG NO. <b>RB T103288-101-11</b>	
DRAWN BY: <b>GILBERT</b>	
APPROVED <i>D Weil</i>	
HEAT TREAT FINISH	
SPEC	
USED ON MODEL	
BELL 412	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:1	DATE 7/19/2011
SHEET 7 OF 11	

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL



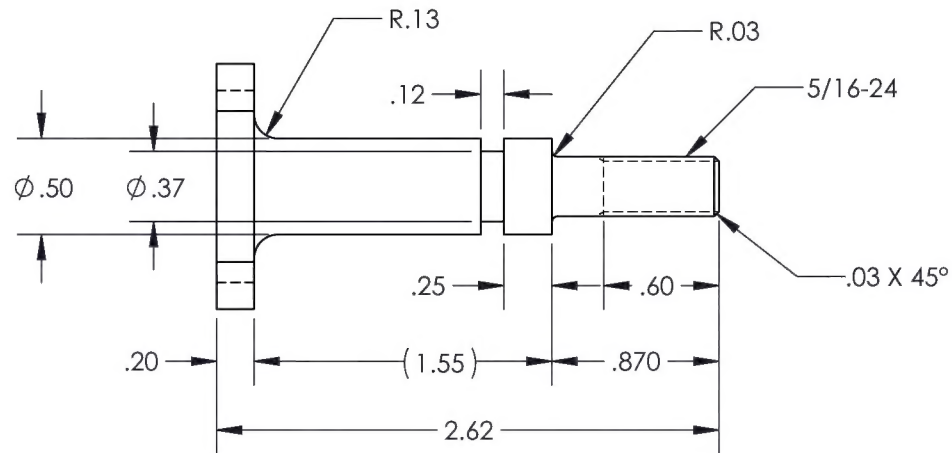
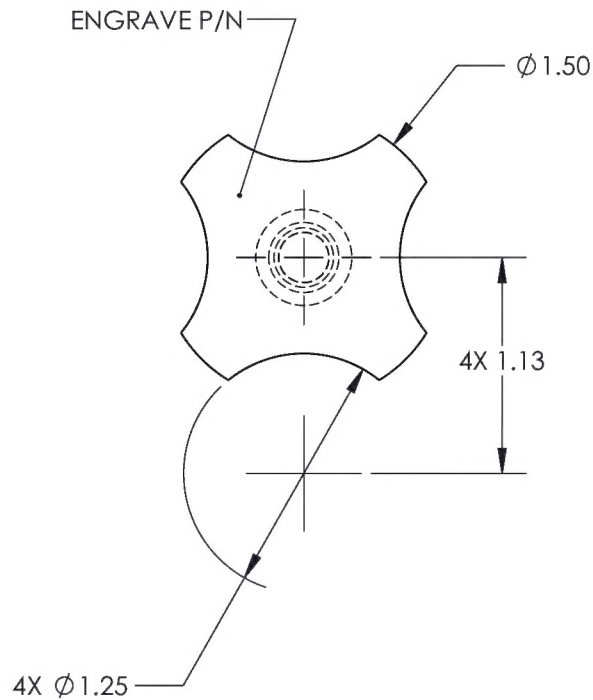
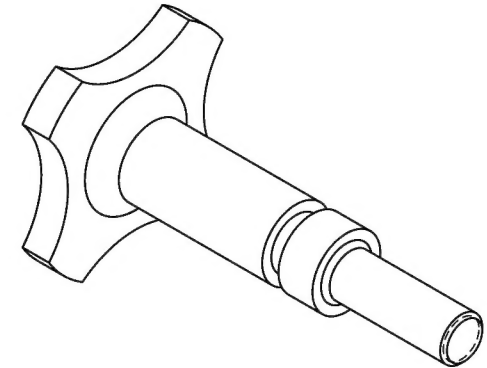
(-13)  
BLOCK

 <b>RED BARN MACHINE</b>	
<b>POSITION TOOL</b>	
DWG NO.	<b>RBT103288-101-13</b>
REV	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1	
FRACTIONS ± 1/32 ANGLES ± 5°	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
DRAWN BY: <b>GILBERT</b> APPROVED: <i>D Weil</i> HEAT TREAT FINISH SPEC USED ON MODEL <b>BELL 412</b>	
SCALE	1:1
DATE	7/19/2011
SHEET 8 OF 11	




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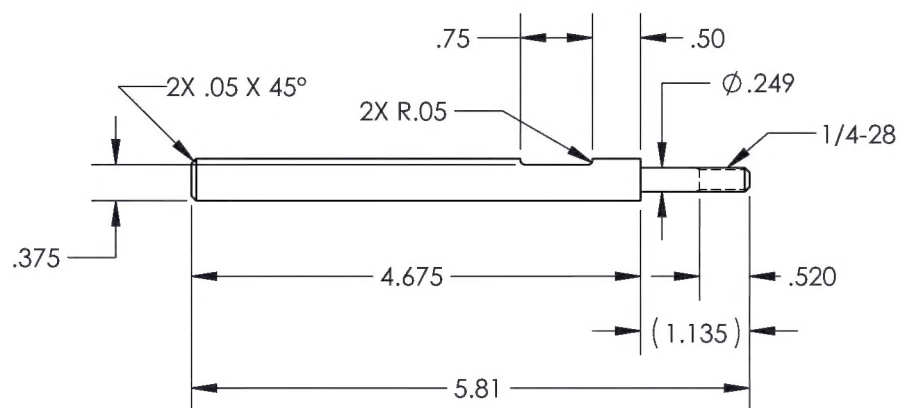
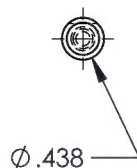
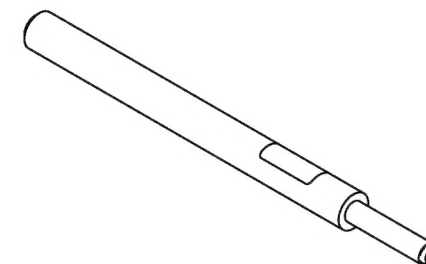
REVISIONS			
REV	DESCRIPTION	DATE	INITIAL



(-15)  
ASSEMBLY KNOB


 <b>RED BARN MACHINE</b>	
<b>TITLE</b> POSITION TOOL	
<b>DWG NO.</b> RBT103288-101-15	<b>REV</b> 
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES <b>TOLERANCES ON:</b> DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT FINISH SPEC USED ON MODEL BELL 412	
SCALE 1:1	DATE 7/19/2011
SHEET 9 OF 11	

REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



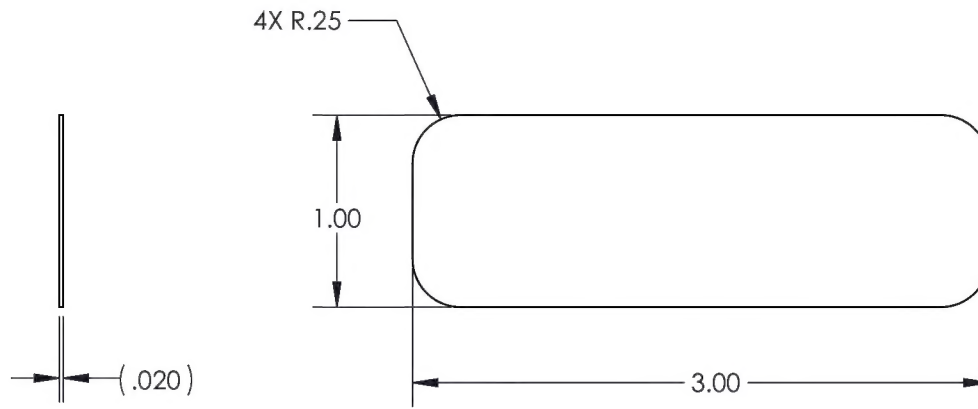
(-17)

STUD

 <h1>RED BARN MACHINE</h1>	
TITLE <h2>POSITION TOOL</h2>	
DWG NO. <h3>RBT103288-101-17</h3>	REV
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	DRAWN BY: <b>GILBERT</b> APPROVED <i>D Weel</i> HEAT TREAT FINISH SPEC
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL <b>BELL 412</b>
SCALE      1:2	DATE      7/19/2011
SHEET 10 OF 11	

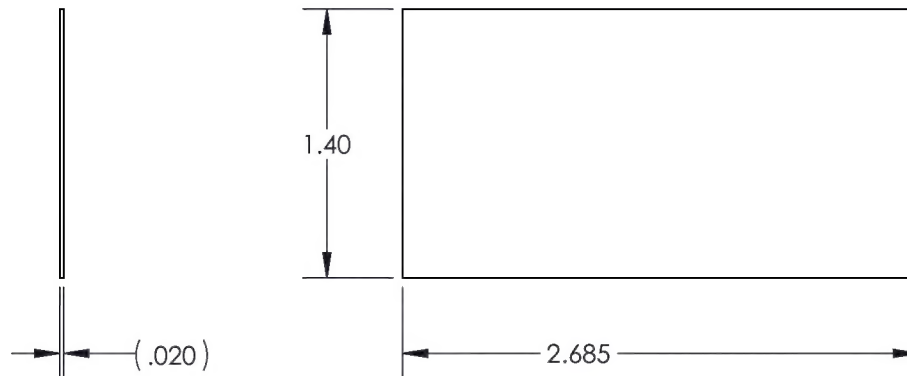
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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
			APPROVED



(-19)

PAD



(-21)

BLOCK PAD

 <b>RED BARN MACHINE</b>	
<b>POSITION TOOL</b>	
DWG NO.	RB T103288-101-19 & -21
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1	
FRACTIONS ± 1/32 ANGLES ± 5°	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE	1:1
DATE	7/19/2011
SHEET 11 OF 11	

DRAWN BY:	GILBERT
APPROVED	<i>D Weil</i>
HEAT	
TREAT	
FINISH	
SPEC	
USED ON MODEL BELL 412	